المحافي المحافظة الم

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## Declaration and Power of Attorney For Patent Application

#### 特許出願宣言書及び委任状

### Japanese Language Declaration

#### 日本語宣言書

下記の氏名の元明者として、私に以下の通り回回し言す。 As a below named inventor, I hereby declare that:  私の住所、私首領、信頼は下記の私の氏名の受に記載され My residence, post office address and citizenship are as stated
TO PER STORY PRODUCTION OF A PARTITION OF A PARTITI
NAMES NAME DESCRIPTION OF A PARTY TO A MARKET AND A MARKE
AND THE PT OF THE PERSON OF TH
た三リです。 next to my name.
下記の名称の元明に関して請求気画に記念され、特許出頂   I believe I am the original, first and sole inventor (if only one name
している元男内容について、私が最初かつ唯一の元明者(ア Is listed below) or an original, first and joint inventor (if piural
記の氏名が一つの場合)もしく注表初かつ共同元男者である names are listed below) of the subject matter which is claimed and
と(下記の名称が受受の语合)信じています。 Cor which a patent is sought on the invention entitled
FLUID DISTRIBUTOR, BURNER APPARATUS,
GAS TURBINE ENGINE AND CO-GENERATION
SYSTEM
上記元明の引油者(下正の语でx司がついていない場合は、 the specification of which is attached hereto unless the following
工事に添付)は、 box is checked:
□ 月 日内会出され、米雪出西香身立た片特許協定条約 図 was filed on _ December 11, 2000
三京出題音号をとし、 as United States Application Number or
(哲当十名培含) に訂正されました。 PCT international Application Number
PCT/JP00/08760 and was amended on
(if applicable).
私は、特許研究範囲を含む上記打正役の明細書を検討し、 Thereby state that I have reviewed and understand the contents of
内容を理解していることをここに表明します。 the above identified specification, including the claims, as amended by any amendment referred to above.
and any any analysis talents to above
私は、運営規則性共第37基第1条56項に定義されると Lacknowledge the duty to disclose information which is material to おり、特許支持の有無について重要な情報を開示する義務が paternability as defined in Title 37, Code of Federal Regulations.
あることを認めます。 Section 1.56、
,

Under the Paperwork Recursion Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number.

#### Japanese Language Declaration (日本語宣言書)

私は、米国法典第35項119条(a)-(d) 項又は365条(b) 項に定き下記の、米 国以外の国の少なくとも一定国を指定している特許協力条約365(a) 項に基ずく国際出意、又は外国での特許出項もしくは意明者証の出類についての外国征完確をここに主要するとともに、任先確を主張している、平出類の前に出版された特許主たは意明者证の外国出版を以下に、特内をマークすることで、示しています。

Prior Foreign Application(s) 外国での先行出事 See \*1

(Number)	(Country)
(잘국)	(置名)
(Number)	(Country)
(품공)	(国名)

私に、第35篇米雪法典119条(e)項に至いて下記の米 国特許出願規定に記載された批判をここに主張いたします。

(Application No.) (Filing Date) (出夏중국) (出夏日)

私に、下記の米三注兵第35章120条に至いて下記の米 国特許出国に記載された権利、又は米国を指定している特許 協力条約365条(c)に基プく権利をここに主張します。ま た、本出頭の各積求範囲の内容が米国注其第35章112条 第1項又は特許協力条約で規定された方法で先行する米国特 許出頭に弱示されていない限り、その先行米三出項言是出日 以降で本出項書の日本国内主たは特許協力条約医隔提出日言 での期間中に入手された。運邦規則注集第37章1条56項 で定義された特許支持の有無に関する重要な情報について語 示義務があることを思想しています。

(Application No.) (Filing Date) (出頭급우) (비頭급우) (비頭급) (비頭급우) (비頭급우)

私は、私自身の知識に基ずいて本宝含蓄中で私が行たう意 明が真実であり、かつ私の入手した情報と私の信じるところ に基ずく表明が全て真実であると信じていること、さらに故 意になされた虚偽の表明及びそれと同等の行為は米国法典第 18篇第1001条に基すき、罰金または拘禁、もしくはそ の同方により処罰されること、そしてそのようた故意による 虚偽の声明を行た之ば、出頭した。又は既に許可された特許 の有効性が失われることを認識し、よってここに上記のごと く宣伝を致します。 I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or Inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's cartificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed 任元禄主要なし

(Day/Month/Year Filed)
(出類年月日)

(Day/Month/Year Filed)
(出類年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.) (Filing Date) (出頭금)

I hereby claim the benefit under Title 25, United States Code, Section 120 of any United States application(s), or 355(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 25, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.58 which became available between the filling date of application,

(Status: Patented, Pending, Abandoned) (灵况:特許許可诱、保属中、放業资)

(Status: Patented, Pending, Abandoned) (現況: 特許許可济、采馬中、放案济)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Prior Foreign Application(s) 外国での先行出願			ity Not Claimed 優先権主張なし
Pat. Appln. No. JP11-356251	Japan	December 15, 1999	
Pat. Appln. No. JP11-356252	Japan	December 15, 1999	
Pat. Appln. No. JP11-356253	Japan	December 15, 1999	
Pat. Appln. No. JP2000-41173	Japan	February 18, 2000	
Pat. Appln. No. JP2000-148187	Japan	May 19, 2000	
(Number)	(Country)	(Day/Month/Year Filed)	
(番号)	(国名)	(出願年月日)	

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#### Japanese Language Declaration (日本語宜言書)

委託状: 私は下記の元明者として、本出類に選する一切の 手続きを米特許高額局に対して受行する弁理士士たは代理人 として、下記の者を指名いたします。(弁理士、または代理 人の氏名及び至最書号を明記のこと)

PGWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

•					
William H. Logsdon	22,132	Barbara E. Johnson	31,198	Lester N. Fortney	38,141
Russell D. Orkin	25,363	Paul M. Reznick	33,059	Randall A. Notzen	36,882
David C. Hanson	23,024	John W. McIlvaine	34,219	Jewsse A. Hirshman	40,016
Frederick B. Ziesenheim	19,438	Michael I. Shamos	30,424	James G. Porcelli	33,757
Richard L. Byrne	28,498	Blynn L. Shideler	35,034	Kent E. Baldauf, Jr.	36,082
Kent E. Baldauf	25,826	Julie W. Meder	36,216		

類送付先

Send Correspondence to:

Russell D. Orkin, 700 Koppers Building, 436 Seventh Avenue, Pttsburgh PA 15219-1818

直接電話連絡先: (名前及び電話番号) Direct Telephone calls to: (name and telephone number)

Russell D. Orkin (412) 471-8815

唯一主たは第一元明者	名	Full name of sole or first inventor Koji MORIYA
完明者の署名	日付	Inventor's signature Date  132 33 = June 7, 2002
<b>生</b> 矛		R <del>midma</del> Chuo-ku, Osaka, Japan
图系		Japanese
私音氣		Post Office Address c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome, Chuo-ku, Osaka,
		Japan
第二共同共明者		Full name of second joint inventor, if any Tsutomu WAKABAYASHI
第二共同尧明者	<b>日付</b>	Second Inventor's signature Date
<b>位</b> 示		Residence Chuo-ku, Osaka, Japan
<b>写新</b>	·	Japnese
私事用		Post Office Address c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome, Chuo-ku, Osaka. Japan

(第三以降の共同元明者についても同様に記載し、署名をす

(Supply similar information and signature for third and subsequent joint inventors.)

ること)

## (日本語宣誓書) Japanese Language Declaration

第三共同発明者		Full name of 3rd joint inventor, if any Takahiro SAKO
発明者の署名	日付	Third inventor's signature Date
		厅占 <u> </u>
住所		Residence Chuo-ku, Osaka, Japan
国籍	·	Citizenship Japanese
私書箱		Post Office Address c/o OSAKA GAS CO., LTD.
		1-2, Hiranomachi 4-chome, Chuo-ku, Osaka, Japan
第四共同発明者		Full name of 4th joint inventor, if any Yuji NAKAMURA
発明者の署名	日付	4th inventor's signature Date
		サ オナ 水 う June 7, 2002
住所		Residence Chuo-ku, Osaka, Japan
国籍		Citizenship Japanese
私書箱	:	Post Office Address C/O OSAKA GAS CO., LTD.
		1-2, Hiranomachi 4-chome, Chuo-ku, Osaka, Japan
第五共同発明者		Full name of 5th joint inventor, if any Shonosuke KOGA
発明者の署名	日付	5th inventor's signature Date  June 7, 2002
住所		Residence Chuo-ku, Osaka, Japan
国籍		Citizenship Japanese
私書箱		Post Office Address C/O OSAKA GAS CO., LTD.
		1-2, Hiranomachi 4-chome, Chuo-ku, Osaka, Japan
第六共同発明者		Full name of 6th joint inventor, if any Masamichi IPPOMMATSU
発明者の署名	日付	6th inventor's signature Date  M hormon aline June 7, 2002
住所		Residence /
国籍		Chuo-ku, Osaka, Japan Citizenship Japanese
71 - 33 Mar		
私書箱		Post Office Address  c/o OSAKA GAS CO., LTD.
		1-2, Hiranomachi 4-chome, Chuo-ku, Osaka, Japan

## (日本語宣誓書) Japanese Language Declaration

Code the TMO
Seiichi ITO
7th inventor's signature Date
June 7, 2002
Residence Chuo-ku, Osaka, Japan
Citizenship Japanese
Post Office Address C/O OSAKA GAS CO., LTD.
1-2, Hiranomachi 4-chome, CHuo-ku, Osaka, Japan
Full name of 8th joint inventor, if any
8th inventor's signature Date
Residence
Citizenship
Post Office Address
Full name of 9th joint inventor, if any
9th inventor's signature Date
Residence
Citizenship
Post Office Address

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## Declaration and Power of Attorney For Patent Application

#### 特許出願宣言書及び委託状

#### Japanese Language Declaration

#### E本語宣言書

下記の氏名の元明者として、私に以下の迂り三者します。	As a below named inventor, I hereby declare that:
私の住所、私香油、白海に下花の私の氏名の受に記載された通りです。	My residence, post office address and citizenship are as stated next to my name.
下至の名称の元明に関して加求気運に記念され、特許出版している元明内容について、私が最初かつ唯一の元明者(下配の氏名が一つの基合)もしくは是初かつ共同元明者であると(下記の名称が改要の基合)信じています。	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
	FLUID DISTRIBUTOR, BURNER APPARATUS,
	GAS TURBINE ENGINE AND CO-GENERATION SYSTEM
上記元明の引起者(下記の侵でx回がついていない場合性、 本書に恐行)は、	the specification of which is attached hereto unless the following box is checked:
□ 月_日に送出され、米国出頭会身さたは特許協定条約 □原出題会身をとし、 (放出する場合) に訂正されました。	was filed on <u>December 11, 2000</u> as United States Application Number or PCT International Application Number PCT/JP00/08760 and was amended on (If applicable).
私は、特許対文気団を含む上記訂正受の明知者を検討し、 内容を選择していることをここに表明します。	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
我は、選邦規則性会第37編第1条56項に定義されると おり、特許交替の有無について重要な情報を開示する義務が あることを思めます。	I acknowledge the duty to disclose information which is material to paterizability as defined in Title 37, Code of Federal Regulations. Section 1.56.

PTO/S2/106 (8

Faile at 1906mark United to 1906, no persons are required to respond to a collection of information unless it displays a valid CMB control number,

## Japanese Language Declaration

(日本語宣言書)

私は、米国生食第35至119長(a)-(d) 域又は365長(b) 項に注き下記の、 米 国以外の国の少なくとも一定国を指定している特許協力条約365(a) 域に基ずく国際出層、又は外面での特許出質もしくは民間者証の出類についての外国後完確をここに主張するとともに、便完確を主張している。 不出版の前に出版された特許さたは発明者証の外面出版を以下に、発用をマークすることで、示しています。

Prior Foreign Application(s)

外国での先行出国

See \*1

(Number) (잘륙)	(Country) (医名)		
. (Number)	(Country)		
(番号)	(国名)		

私は、第35篇米国注集119条 (e) 項に至いて下記の米 国特許出願規定に記載された批判をここに主選いたします。

(Application No.) (Filing Oate) (出東音子) (出東日)

型は、下記の米三注兵第35至120条に至いて下記の米 巨特許出国に記載された批判、又は米巨を指定している特許 協力条約365条(c)に基子く信利をここに主張します。ま た、本出国の各項求知三の内容が米巨注兵第35至112条 第1項又は特許協力条約で規定された方法で先行する米国特 許出頭に研示されていない限り、その先行米三出取者送出日 以降で本出項者の日本国内主たは特許協力条約に原提出日主 での期間中に入手された。这邦規則注集第37至1条56項 で定義された特許資格の有無に関する重要な情報について調 示義務があることを思慮しています。

(Application No.) (Filing Date) (出頭급증) (브頭티) (Application No.) (Filing Date) (出頭급증) (出頭급증)

私は、私自身の知識に基于いて本面は基中で私が行たう式明が真実であり、かつ私の入手した情報と私の信じるところに基ずく表明が全て真実であると信じていること、さらに対意になされた虚偽の表明及びそれと同等の行為は米国法典第18超第1001条に基すさ、罰金主たは拘禁、もしくはその両方により処罰されること、そしてそのようた故意による虚偽の声明を行たえば、出頭した、又は底に許可された特許の市効性が失われることを認識し、よってここに上記のごとく直管を致します。

I hereby claim foreign priority under Title 25, United States Code, Section 119 (a)-(d) or 355(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed 任夫技主要なし

(Day/Month/Year Filed) (出夏华月日)		
(Day/Month/Year Filed) (出面等月日)		

I hereby claim the benefit under Title 35. United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.) (Filing Date) (出質量子) (出題目)

I hereby claim the benefit under Title 25, United States Code. Section 120 of any United States application(s), or 385(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, 1 acknowledge the duty to disclose information which is material to patentiability as defined in Title 37, Code of Federal Regulations, Section 1.58 which became available between the filling date of application,

(灵况:特齐許可济、保属中、放案济)

(Status: Patented, Pending, Abandoned)

(Status: Patented, Pending, Abandoned) (現況: 特許許可济、保護中、故案济)

(Status: Patented, Pending, Abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the files so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may Jeopardize the validity of the application or any patent issued thereon.

Prior Foreign Application(s)		Prid	ority Not Claimed
外国での先行出願			優先権主張なし
·			
Pat. Appln. No. JP11-356251	Japan	December 15, 1999	
Pat. Appln. No. JP11-356252	Japan	December 15, 1999	
Pat. Appln. No. JP11-356253	Japan	December 15, 1999	
Pat. Appln. No. JP2000-41173	Japan	February 18, 2000	
Pat. Appln. No. JP2000-148187	Japan	May 19, 2000	
(Number)	(Country)	(Day/Month/Year Filed)	<del>-</del> ,
(番号)	(国名)	(出願年日日)	

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#### Japanese Language Declaration (日本語宣言書)

委託会: 私は下記の発明者として、本出頭に属する一切の 手続きを米希許高額量に対して並行するデモニュたは代理人 として、下記の者を指名いたします。(弁理士、または代理 人の氏名及び登録者号を明定のこと) PCWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

William H. Logsdon	22,132	Barbara E. Johnson	31,198	Lester N. Fortney	38,141
Russell D. Orkin	25,363	Paul M. Reznick	33,059	Randall A. Notzen	36,882
David C. Hanson	23,024	John W. McIlvaine	34,219	Jewsse A. Hirshman	40,016
Frederick B. Ziesenheim	19,438	Michael I. Shamos	30,424	James G. Porcelli	33,757
Richard L. Byrne	28,498	Blynn L. Shideler	35,034	Kent E. Baldauf, Jr.	36,082
Kent E. Baldauf	25,826	Julie W. Meder	36,216		

書類送付先

Send Correspondence to:

Russell D. Orkin, 700 Koppers Building, 436 Seventh Avenue, Pttsburgh PA 15219-1818

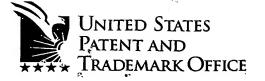
直接電話連絡先: (名前及び電話番号) Direct Telephone calls to: (name and telephone number)

Russell D. Orkin (412) 471-8815

唯一主た广第一元明者名		Full name of sole or first inventor Kazuo SUZUKI	. (
光明者の著名	日付	Inventor's signature	Date June 7, 2002
生新		R <del>esidence</del> Chofu-shi, Tokyo, d	Japan
宫海	*	Citarahip Japanese	*
私言符	c/o National	Pest Office Address Accospace Laboratory, Science	and Technology Agency
· ;		44-1, Jindaiji Higa Chofu-shi, Tokyo, d	
第二共同元明者		Full name of second joint inventor Kazuo SHIMODAIRA	त, र्वे आप्र
第二共同尧明者	百付 .	Second Inventor's signature  T + - tale	Date June 7, 2002
<b>住</b> 京	ur e sui estr	Residence Chofu-shi, Tokyo, J	Japan :
<b>写</b> 弃		Cizanth Japanese	
私态程	c/o National	Post Office Address erospace Laboratory, Science	and Technology Agency
		44-1, Jindaiji Higa	abianabi 7 abaa

(第三以降の共同発明者についても同様に記載し、著名をすること)

(Supply similar information and signature for third and subsequent joint inventors.)



**1003** - 6 2003

WEBB, ZISSEN TELA, LOGSFOR

ORKOM, ATMILLER FO

DECEMBER 31, 2002

ORKIN & HANSON, P.C. RUSSELL D. ORKIN 436 SEVENTH AVENUE 700 KOPPERS BUILDING PITTSBURGH, PA 15219-1818 Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/14/2002

REEL/FRAME: 013320/0614

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MORIYA, KOJI

DOC DATE: 06/07/2002

ASSIGNOR:

WAKABAYASHI, TSUTOMU

DOC DATE: 06/07/2002

ASSIGNOR:

SAKO, TAKAHIRO

DOC DATE: 06/07/2002

ASSIGNOR:

NAKAMURA, YUJI

DOC DATE: 06/07/2002

ASSIGNOR:

KOGA, SHONOSUKE

DOC DATE: 06/07/2002

ASSIGNOR:

IPPOMMATSU, MASAMICHI

DOC DATE: 06/07/2002

**ASSIGNOR:** 

ITO, SEIICHI

DOC DATE: 06/07/2002

013320/0614 PAGE 2

ASSIGNEE:

OSAKA GAS CO., LTD. 1-2, HIRANOMACHI 4-CHOME, CHUO-KU OSAKA, JAPAN

SERIAL NUMBER: 10149887

PATENT NUMBER:

FILING DATE: 06/14/2002 ISSUE DATE:

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2002

June 14, Date

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FORM PTO-1595	12-20-2002 U.S. DEPARTMENT OF COMMERCE
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Koji MORIYA, Tsutomu WAKABAYASHI, Takahiro SAKO Yuji NAKAMURA, Shonosuke KOGA, Masamichi IPPOMM and Seiichi ITO	
Additional name(s) of conveying party(ies) attached? O Yes S No	
3. Nature of conveyance:	Street Address: 1-2, Hiranomachi 4-chome,
8 Assignment O Merger	Chuo-ku, Osaka, Japan
☐ Security Agreement. ☐ Change of Name	City:
O Other	State: ZIF:
Execution Date: June 7, 2002	Additional name(s) & address(es) attached? C Yes 8 No
4. Application number(s) or patent number(s):  If this document is being filed together with the execution date of the application is:  A. Patent Application No.(s)  06/21/2002 SNAJARRO 00000038 10149887 04 FC:581  40.00 0P	
Additional	numbers attached? O Yes & No
5. Name and address of party to whom corresponde concerning document should be mailed: Name: Russell D. Orkin	ence 6. Total number of applications and patents involved:
Internal Address: Webb Ziesenheim Logsdon	7. Total fee (37 CFR 3.41)\$40.00
Orkin & Hanson, P.C.	■ ■ Enclosed with filing fee
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Blynn L. Shideler Name of Person Signing Reg. No. 35,034

### ASSIGNMENT

WHEREAS, MO	RIYA KOJI, TSUTOMU WAF	KABAYASHI	TAKAHIRO S	SAKO, YUJI	NAKAMURA
SHONOSUKE KOGA,	MASAMICHI IPPOMMATSU	and SEII	CHI ITO		
improvements in an	ppear below (hereinaster (collectively)				
CO-GENERATI		OF INVENTION)		···	· · · · · · · · · · · · · · · · · · ·
(hereinafter referred to a	as THE INVENTION) for which a		for United States	s Letters Paten	it was filed or
WHEREAS,	OSAKA GAS CO.,	LTD.	·		-
whose post office address is	1-2, Hiranomachi	4-chome,	Chuo-ku,	Osaka,	Japan
		(and)			
whose post office address is (hereinafter (collectively) refe States and throughout the wo	erred to as ASSIGNEE), is desirous of ac	quiring the entire	e right, title and inter	rest in and to the	same in the United
the United States of America, and reissue of said application apply for patents and inventor the Paris International Converto any and all patents, patents be granted throughout the work.	ansfer until said ASSIGNEE, the entire reprinciple including any and all United States Learn; and the entire right, title and interest certificates in respect thereof and to contion and all other available internations of addition, utility models, patents of orld in respect of said invention.	etters Patent grainst in and to said laim priority pure all conventions and importation, r	ted on any division I invention throughorsuant to rights accord to treaties; and the e evalidation patents a	, continuation, cout the world, incorded Assignor entire right, title and inventor certi	ontinuation-in-par cluding the right t under the terms of and interest in an ificates which ma
and maintenance of said appli for said invention, including a further consideration. ASSIG ASSIGNEE at ASSIGNEE'S req and to provide further assur prosecution, maintenance an obligations under this instru	ereby agrees to execute any documents ication or any other patent application(s additional documents that may be requious also agrees, without further conquest documents and information concrances and testimony on behalf of As and defense of any patent application or ment shall extend to Assignor's heirs	c) or inventor cered to affirm the asideration and a terming the inversision E that law patent encomps, executors, administration or inventor of the account of the acco	rificate(s) in the Unificate(s) in the Unificate of Assignee at Assignee's expension that are within a properties of the Unificate of the Unificate of Assignee of	in and to said invase, to identify at ASSIGNOR'S pos red of ASSIGNOI ms of this instrurer legal represent	ention, all without of communicate to session or control in respect of the ment. Assignor, actives.
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	See fallowing pa	ges for additional a	ssignors		
Full Name of First Assignor	Koji MORIYA				
Residence Address - Street	c/o OSAKA GAS CO. 1-2, Hiranomachi	, LTD. 4-chome		·	
City	Chuo-ku, Osaka				
State or Country	Japan	Zip	-		
DATE		SIGNATURE	12 15	= 2 -	
June 7	, 2002		IT SC	三号=	

# ASSIGNMENT Page 2

Full Name of 2nd Assignor	Tsutomu WAKABAYASHI					
Residence Address - Street	c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome					
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State or Country	Japan	iž.	Zip			
June 7	, 2002		SIGNATURE	浩	林	努

Takahiro SAKO		
c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome		×
Chuo-ku, Osaka		
	Zip	
Japan		
	SIGNATURE 5左占为34	
	c/o OSAKA GAS CO., 1-2, Hiranomachi 4- Chuo-ku, Osaka Japan	C/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome  Chuo-ku, Osaka  Zip  Japan

Full Name of 4th Assignor	Yuji NAKAMURA		
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City	Chuo-ku, Osaka		
State or Country	Japan	Zip	
June 7		SIGNATURE + # # 3/5 5]	

Full Name of 6th Assignor	Shonosuke KOGA		
Residence Address - Street	c/o OSAKA GAS CO., LTD. 1-2, Hiranomachi 4-chome		
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State or Country	Japan		
DATE June	7, 2002	SIGNATURE 占屬為之助	

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Full Name of 6th Assignor	Masamichi IPPOMMA	TSU
Residence Address - Street	c/o OSAKA GAS CO. 1-2, Hiranomachi	, LTD. 4-chome
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State or Country	Japan	Zip
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Full Name of 7th Assignor	Seiichi ITO	
Residence Address - Street	c/o OSAKA GAS CO. 1-2, Hiranomachi	
City	Chuo-ku, Osaka	
State or Country	Jaapn .	<b>Ζi</b> ρ
June 7,	2002	SIGNATURE Signature
Full Name of 8th Assignor		
Residence Address - Street		•
City		
State or Country		Zip
DATE .	1	Signature
Full Name of 9th Assignor		
Residence Address - Street		
City		-
State or Country		Zip
DATE		SIGNATURE

DECEMBER 31, 2002

RUSSELL D. ORKIN
436 SEVENTH AVENUE
700 KOPPERS BUILDING
PITTSBURGH, PA 15219-1818

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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SUZUKI, KAZUO

DOC DATE: 06/07/2002

ASSIGNOR:

SHIMODAIRA, KAZUO

DOC DATE: 06/07/2002

ASSIGNEE:

OSAKA GAS CO., LTD. 1-2, HIRANOMACHI 4-CHOME CHUO-KU, OSAKA, JAPAN

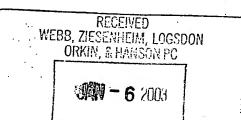
SERIAL NUMBER: 10149887

PATENT NUMBER:

FILING DATE: 06/14/2002

ISSUE DATE:

STEVEN POST, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS



10/14988/ 'd PCT/PTO JUN 1 4 2002 U.S. DEPARTMENT OF COMMERCE FORM PTO-1595 EET RECC Patent and Trademark Office (Rev. £-93) 102322875 OMB No. 0651-0011 (exp. 4/94) Tab settings → → To the Commissioner for Patents: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies) OSAKA GAS CO., LTD. Kazuo SUZUKI and Kazuo SHIMODAIRA Internal Address: Additional name(s) of conveying party(ies) attached? O Yes 8 No Street Address: 1-2, Hiranomachi 4-chome, 3. Nature of conveyance: Chuo-ku, Osaka, Japan ■ Assignment □ Merger City: \_\_\_\_ O Security Agreement □ Change of Name ZIP: State: \_ Other \_ June 7, 2002 Execution Date: \_\_ Additional name(s) & address(es) attached? O Yes & No 4. Application number(s) or patent number(s): .If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) A. Patent Application No.(s) 08/21/2002 SMAJARRO 00000038 10149887 . 40.00 GP 05 FC:581 5.

. Additional numbers accasing. 4 165 5 10		
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City: Pittsburgh State: PA ZIP: 15219-1818	8. Deposit account number:	

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Blynn L. Shideler
Name of Person Signing
Reg. No. 35,034

Hy Signature

June 14, 2002

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Uniter

#### ASSIGNMENT

	Abbitant
WHEREAS,	Kazuo SUZUKI and Kazuo SHIMODAIRA
mprovements in an FLUID DIST	S appear below (hereinafter (collectively) referred to as ASSIGNOR), has (have) invented certain new and useful TRIBUTOR; BURNER APPARATUS, GAS TURBINE ENGINE (Time of bevolution)  NERATION::SYSTEM
(hereinafter referred to	as THE INVENTION) for which an application for United States Letters Patent was filed or
WHEREAS	OSAKA GAS CO., LTD.
whose post office address	is 1-2, Hiranomachi 4-chome, Chuo-ku, Osaka, Japan
	(and)
whose post office address	is
(hereinafter (collectively) a States and throughout the	eferred to as Assignee), is desirous of acquiring the entire right, title and interest in and to the same in the Office
the United States of Amer and reissue of said applic apply for patents and inve- the Paris International Cor to any and all patents, pat	ORE, for good and Valuable confidences. It is and interest in and to said invention and application throughout it annotes until said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout ica, including any and all United States Letters Patent granted on any division, continuation, continuation-in-paration; and the entire right, title and interest in and to said invention throughout the world, including the right to too certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of avention and all other available international conventions and treaties; and the entire right, title and interest in an ents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may world in respect of said invention.
and maintenance of said a for said invention, includi further consideration. A ASSIGNEE at ASSIGNEE's and to provide further as prosecution, maintenance obligations under this ins	R hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without SSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to request documents and information concerning the invention that are within ASSIGNOR's possession or controps and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the lawfully may be required of ASSIGNOR in ASSIGNOR and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR trument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.
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	See following pages for additional assignors
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State or Country	Zip

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鈴 木

和雄

Japan

June 7, 2002

DATE

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State or Country	Japan	Zφ		
June 7, 2	002	SIGNATURE TY -TIE		
Full Name of 3rd Assignor				
Residence Address - Street				
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DATE		SIGNATURE		
Full Name of 4th Assignor				
Residence Address - Street				
City				
State or Country		Zip		
DATE		SIGNATURE		
Full Name of 6th Assignor				
Residence Address - Street				
City	City			
State or Country		Zip		
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